

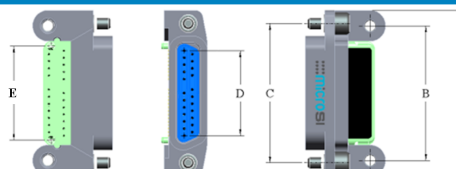


## microSI™

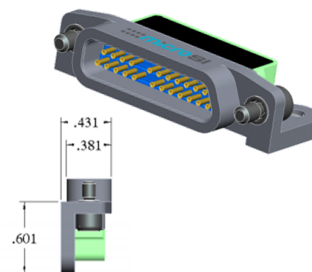
### MKSI – Right Angle (Female)

MKSI right angle board surface mount connectors are used in applications where signal integrity is desired. The connector interface controls the polarization of the connector. Comes with a variety of hardware options.

### GENERAL DIMENSIONS



| SIZE | A     | B     | C     | D     | E     |
|------|-------|-------|-------|-------|-------|
| 1X   | 1.636 | 1.330 | 1.377 | 0.840 | 0.930 |
| 4X   | 2.266 | 1.960 | 2.007 | 1.470 | 1.560 |
| 8X   | 3.106 | 2.800 | 2.847 | 2.310 | 2.400 |



### Sample Part Number Format: MKSI-01L-2000-275-2620



**SERIES**  
Right Angle  
(Female)  
1.78 mm



#### SIZE & INTERFACE POLARIZATION\*

01L – 1X Left (23 pins, 4 DP +9SB)  
01R – 1X Right (23 pins, 4 DP +9SB)  
04L – 4X Left (41 pins, 10 DP +9SB)  
04R – 4X Right (41 pins, 10 DP +9SB)  
08L – 8X Left (65 pins, 18 DP +9SB)  
08R – 8X Right (65 pins, 18 DP +9SB)



#### STYLE

2000 – Female



#### SOCKET TERMINATION (50 μ" Au Contact)

275 – Sn/Pb alloy ☑  
278 – SAC305



#### BODY PLATING

2 – Electroless nickel  
6 – Gold

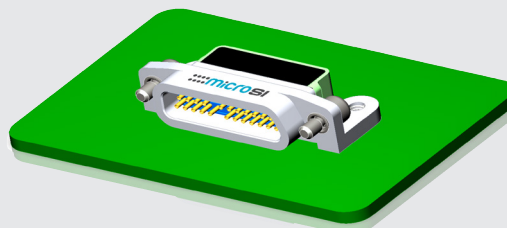
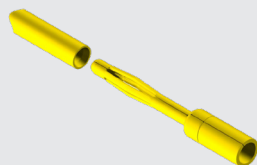


#### HARDWARE

620 – Fixed jacknut  
810 – Turning jackscrews, captivated\*\*  
NXX – Keying jacknuts\*\*\*  
JXX – Keying jackscrews\*\*\*

### High-Reliability Contact

MIL-DTL-83513



PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

### NOTES

- All microSI females have fluorosilicone interfacial seals installed.
- ☑ Option not RoHS-compliant.
- \* Left or right polarization is determined by looking at the male interface with the LONG SIDE downward. Polarization matches the angled side. Sidebands are on the non-angled side.
- \*\* Captivated hardware is factory-installed and non-removable.
- \*\*\* Factory-installed and non-removable. Refer to "Keying Hardware Options" on page 61.

### MATERIALS and FINISHES

Socket Contact: .....Brass  
Pin Contacts: .....BeCu alloy strip  
Contact Finish: .....Gold plate, 50 μ" minimum  
Shells: .....Aluminum alloy 6061-T6  
Shell Finishes: .....Electroless nickel or gold  
Molded Insulators: .....Glass-filled liquid crystal polymer (LCP)  
Embedment: .....Frey Eng. Co. compound CF3003-80 & L-II-49  
Hardware: .....Corrosion-resistant steel  
Interfacial Seal Gaskets: .....Fluorosilicone  
EMI Gaskets: .....Corrosion-resistant steel

NOTE: AirBorn can manufacture special configurations to your exact specifications.

### PERFORMANCE

Contact Rating: .....3 amperes maximum  
Operating Temperature: .....-55° C to 125° C  
Maximum Working Voltage: .....200V, RMS, 60Hz  
Insulation Resistance: .....5,000 megohms minimum @ 500 VDC  
Durability: .....500 connector mating cycles  
Contact Engaging Force: .....6.0 ounces maximum/contact  
Contact Separating Force: .....0.5 ounces minimum/contact  
Mating and Unmating Force: .....10 ounces maximum/contact

NOTE: Performance values are estimates at this time. Actual values will be determined when final product testing is complete.

### SIGNAL INTEGRITY PERFORMANCE (Connectors Only)

|   |                                             |                  |
|---|---------------------------------------------|------------------|
| 1 | Diff. Impedance, filtered to 79 ps (20-80%) | 100 ohm          |
| 2 | Diff. Insertion Loss                        | 10 GHz @ -3 dB   |
| 3 | Diff. Return Loss                           | 7.5 GHz @ -10 dB |
| 4 | Intra-Pair                                  | < 2 ps           |